

TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

February 4, 2013

TO: Internal File

THRU: James Owen, Lead *JO*

FROM: Ken Hoffman, Hydrologist *KH*

RE: Update to Surface Facilities/Operation Plan, Energy West Mining Company, Deer Creek Mine, C/015/0018, Task ID #4242

SUMMARY:

On January 7, 2013, the Utah Division of Oil Gas & Mining received an application for an amendment to the Mining & Reclamation Plan (MRP) of the Deer Creek mine. The application seeks approval to update Volume 5, Plate 3-9 to include all areas of disturbance. Additional changes include modifications to Volume 2, Part 3, Operation Plan, which required an update to numerous informational items.

This memo addresses the application's compliance with the administrative (R645-301-100), engineering (R645-301-500) and hydrology (R645-301-700) sections of the Utah Coal Mining Rules. Contents and information provided are sufficient enough to meet the minimum requirements of this section of the Utah Coal Mining Rules.

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TECHNICAL ANALYSIS:

OPERATION PLAN

HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 773.17, 774.13, 784.14, 784.16, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-300-140, -300-141, -300-142, -300-143, -300-144, -300-145, -300-146, -300-147, -300-147, -300-148, -301-512, -301-514, -301-521, -301-531, -301-532, -301-533, -301-536, -301-542, -301-720, -301-731, -301-732, -301-733, -301-742, -301-743, -301-750, -301-761, -301-764.

Analysis:

Water-Quality Standards and Effluent Limitations

The amendment is proposing changes in the sediment control measures used in the alternative sediment control areas (ASCA) at the site. These measures are anticipated met all the require water quality standards.

Sediment Control Measures

The amendment is proposing changes in the sediment control methods used in the ASCAs at the site. The proposed changes focus on replacing the use of some silt fences and straw bales with sediment traps, berms, and water bars. The permittee is very experienced in use of all of these methods and is anticipated to be successful at utilizing the change in measures use to continue to control the sediment within the ASCAs.

Impoundments

No significant changes are being made to the existing permitted impoundments as part of the amendment.

Findings:

The application fulfills these requirements.

MAPS, PLANS, AND CROSS SECTIONS OF MINING OPERATIONS

Regulatory Reference: 30 CFR Sec. 784.23; R645-301-512, -301-521, -301-542, -301-632, -301-731, -302-323.

Analysis:

Mining Facilities Maps

The amendment includes Map Packet 3-9 which is composed of 4 sheets of detailed maps. Displayed on the sheets of Map Packet 3-9 are drawings of the disturbed area of the main facility layout and the down canyon conveyer belt. Below the conveyer belt are ASCAs which includes details for the sediment traps, silt fences, water bars, and dirt berms.

Findings:

The application fulfills these requirements.

RECOMMENDATIONS:

The application is recommended for approval.